

## Table K2. - Soil Features

Stafford and King George Counties, Virginia

Absence of an entry indicates that the feature is not a concern or that data were not estimated.

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
Ad:									
Alluvial land, sandy and gravelly	---	---	---	---	---	---	---	---	---
Alluvial wet	---	---	---	---	---	---	---	---	---
Ae:									
Alluvial land, wet	---	---	---	---	---	---	---	---	---
Alluvial land	---	---	---	---	---	---	---	---	---
AfA:									
Altavista	---	---	---	---	---	---	---	Moderate	Moderate
Augusta	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
Wickham	---	---	---	---	---	---	---	---	---
AfB:									
Altavista	---	---	---	---	---	---	---	Moderate	Moderate

## Table K2. - Soil Features - Continued

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
AfB:									
Dogue	---	---	---	---	---	---	---	---	---
Wickham	---	---	---	---	---	---	---	---	---
AfC2:									
Altavista	---	---	---	---	---	---	---	Moderate	Moderate
Wickham	---	---	---	---	---	---	---	---	---
AIB:									
Appling	---	---	---	---	---	---	---	Moderate	Moderate
Caroline	---	---	---	---	---	---	---	---	---
Cecil	---	---	---	---	---	---	---	---	---
Colfax	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
AIC2:									
Appling	---	---	---	---	---	---	---	Moderate	Moderate

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
AIC2:									
Ashlar	---	---	---	---	---	---	---	---	---
Cecil	---	---	---	---	---	---	---	---	---
Colfax	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
AnB:									
Appling	---	---	---	---	---	---	---	Moderate	Moderate
Cecil	---	---	---	---	---	---	---	---	---
Cullen	---	---	---	---	---	---	---	---	---
AnC2:									
Appling	---	---	---	---	---	---	---	Moderate	Moderate
Cecil	---	---	---	---	---	---	---	---	---
Cullen	---	---	---	---	---	---	---	---	---
ApC3:									

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
ApC3:									
Appling	---	---	---	---	---	---	---	Moderate	Moderate
Ashlar	---	---	---	---	---	---	---	---	---
Cecil	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
AsD:									
Ashlar	Bedrock (lithic)	20-40	---	Indurated	---	---	---	Low	High
Appling	---	---	---	---	---	---	---	---	---
Manor	---	---	---	---	---	---	---	---	---
AsE:									
Ashlar	Bedrock (lithic)	20-40	---	Indurated	---	---	---	Low	High
Manor	---	---	---	---	---	---	---	---	---
Watt variant	---	---	---	---	---	---	---	---	---
AsF:									

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
AsF:									
Ashlar	Bedrock (lithic)	20-40	---	Indurated	---	---	---	Low	High
Gravelly soil	---	---	---	---	---	---	---	---	---
Rock Outcrop	---	---	---	---	---	---	---	---	---
AtA:									
Atlee	Fragipan	---	---	Very weakly cemented	---	---	---	High	High
Bourne	---	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---	---
AtB:									
Atlee	Fragipan	---	---	Very weakly cemented	---	---	---	High	High
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---	---
Au:									

## Table K2. - Soil Features - Continued

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
Au:									
Augusta	---	---	---	---	---	---	---	High	Moderate
Roanoke	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
Wahee	---	---	---	---	---	---	---	---	---
AvB:									
Aura	---	---	---	---	---	---	Moderate	Low	High
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Galestown	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
AvC2:									
Aura	---	---	---	---	---	---	Moderate	Low	High

**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
AvC2:									
Caroline	---	---	---	---	---	---	---	---	---
Galestown	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
AvD2:									
Aura	---	---	---	---	---	---	Moderate	Low	High
Caroline	---	---	---	---	---	---	---	---	---
Galestown	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
AvE2:									
Aura	---	---	---	---	---	---	Moderate	Low	High
Galestown	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
AwD:									

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
AwD:									
Aura	---	---	---	---	---	---	Moderate	Low	High
Galestown	---	---	---	---	---	---	Low	Low	High
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Caroline	---	---	---	---	---	---	---	---	---
AwE:									
Aura	---	---	---	---	---	---	Moderate	Low	High
Galestown	---	---	---	---	---	---	Low	Low	High
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Gravelly soil	---	---	---	---	---	---	---	---	---
BaA:									
Bertie	---	---	---	---	---	---	---	Moderate	High
Bladen	---	---	---	---	---	---	---	---	---



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Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
BaA:									
Fallsington	---	---	---	---	---	---	---	---	---
Pooler variant	---	---	---	---	---	---	---	---	---
Bb:									
Bibb	---	---	---	---	---	---	---	High	Moderate
Alluvial wet	---	---	---	---	---	---	---	---	---
Fresh water swamp	---	---	---	---	---	---	---	---	---
Iuka	---	---	---	---	---	---	---	---	---
Bd:									
Bladen	---	---	---	---	---	---	---	High	High
Pooler variant	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
BmA:									

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Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
BmA:									
Bourne	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Bladen	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
BmB:									
Bourne	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Caroline	---	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
BmC2: Bourne	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Bourne variant	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
BnB: Bourne variant	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
BnC2: Bourne variant	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
BnC2:									
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
BoB:									
Bourne	Fragipan	18-24	---	Weakly cemented	---	---	---	High	High
	Bedrock (paralithic)	70-98	---	Strongly cemented					
Appling	---	---	---	---	---	---	---	---	---
Aura	---	---	---	---	---	---	---	---	---
Bourne variant	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Cecil	---	---	---	---	---	---	---	---	---
BoC2:									
Bourne	Fragipan	18-24	---	Weakly cemented	---	---	---	High	High
	Bedrock (paralithic)	70-98	---	Strongly cemented					

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
BoC2:									
Appling	---	---	---	---	---	---	---	---	---
Aura	---	---	---	---	---	---	---	---	---
Bourne variant	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Cecil	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
BrD:									
Bremo	Bedrock (lithic)	20-40	---	Indurated	---	---	---	Low	Moderate
Manor	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
Zion variant	---	---	---	---	---	---	---	---	---
BrE:									

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
BrE:									
Bremo	Bedrock (lithic)	20-40	---	Indurated	---	---	---	Low	Moderate
Manor	---	---	---	---	---	---	---	---	---
Watt variant	---	---	---	---	---	---	---	---	---
CaB2:									
Caroline	---	---	---	---	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---
Bourne	---	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
CaC2:									
Caroline	---	---	---	---	---	---	---	High	High

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CaC2:									
Aura	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
CaD2:									
Caroline	---	---	---	---	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
CcC3:									
Caroline	---	---	---	---	---	---	---	High	High
Bourne	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CcC3:									
Sassafras	---	---	---	---	---	---	---	---	---
CcD3:									
Caroline	---	---	---	---	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
CdD:									
Caroline	---	---	---	---	---	---	---	High	High
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Craven	---	---	---	---	---	---	---	---	---
Galestown	---	---	---	---	---	---	---	---	---
CdE:									
Caroline	---	---	---	---	---	---	---	High	High



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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CdE:									
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Galestown	---	---	---	---	---	---	---	---	---
Ce:									
Cartecay	---	---	---	---	---	---	---	Low	Moderate
Alluvial land, wet	---	---	---	---	---	---	---	---	---
Wehadkee	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
CfB2:									
Cecil	---	---	---	---	---	---	---	High	High
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
CfC2:									
Cecil	---	---	---	---	---	---	---	High	High

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CfC2:									
Ashlar	---	---	---	---	---	---	---	---	---
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
CgB2:									
Cecil	---	---	---	---	---	---	---	High	High
Cullen	---	---	---	---	---	---	---	---	---
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
ChC3:									
Cecil	---	---	---	---	---	---	---	High	High
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
CIB:									

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CIB:									
Colfax	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Appling	---	---	---	---	---	---	---	---	---
Cecil	---	---	---	---	---	---	---	---	---
CmB:									
Colfax variant	Fragipan	---	---	Weakly cemented	---	---	---	High	High
Appling	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
Cn:									
Congaree	---	---	---	---	---	---	---	Moderate	Moderate
Cartecay	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
Wickham	---	---	---	---	---	---	---	---	---
CrA:									

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CrA:									
Craven	---	---	---	---	---	---	---	High	High
Bladen	---	---	---	---	---	---	---	---	---
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
CrB:									
Craven	---	---	---	---	---	---	---	High	High
Pooler variant	---	---	---	---	---	---	---	---	---
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
CuB2:									

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CuB2:									
Cullen	---	---	---	---	---	---	---	High	Moderate
Cecil	---	---	---	---	---	---	---	---	---
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
CuC2:									
Cullen	---	---	---	---	---	---	---	High	Moderate
Cecil	---	---	---	---	---	---	---	---	---
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
CvC3:									
Cullen	---	---	---	---	---	---	---	High	Moderate
Cecil	---	---	---	---	---	---	---	---	---

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
CvC3:									
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
Cw:									
Cut and fill land	---	---	---	---	---	---	---	---	---
DAM:									
Dam	---	---	---	---	---	---	---	---	---
DoA:									
Dogue	---	---	---	---	---	---	---	High	High
Altavista	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---
Wahee	---	---	---	---	---	---	---	---	---
Wickham	---	---	---	---	---	---	---	---	---
DoB:									
Dogue	---	---	---	---	---	---	---	High	High

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
DoB:									
Altavista	---	---	---	---	---	---	---	---	---
Turbeville	---	---	---	---	---	---	---	---	---
Wickham	---	---	---	---	---	---	---	---	---
Eb:									
Elbert variant	Bedrock (paralithic)	60-98	---	Moderately cemented	---	---	---	High	High
Worsham	---	---	---	---	---	---	---	---	---
Meadowville	---	---	---	---	---	---	---	---	---
Orange	---	---	---	---	---	---	---	---	---
EIB2:									
Elioak	---	---	---	---	---	---	Moderate	High	Moderate
Cullen	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
EIB2:									
Nason	---	---	---	---	---	---	---	---	---
EIC2:									
Elioak	---	---	---	---	---	---	Moderate	High	Moderate
Cullen	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
EmC3:									
Elioak	---	---	---	---	---	---	Moderate	High	Moderate
Cullen	---	---	---	---	---	---	---	---	---
Manor	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
FaB:									



## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
FaB:									
Fairfax	---	---	---	---	---	---	Moderate	Moderate	High
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
Fd:									
Fallsington	---	---	---	---	---	---	Moderate	High	High
Bladen	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---
Fs:									
Fresh water swamp	---	---	---	---	---	---	---	---	---
GsD:									
Galestown	---	---	---	---	---	---	Low	Low	High
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Caroline	---	---	---	---	---	---	---	---	---

GsE:

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
GsE:									
Galestown	---	---	---	---	---	---	Low	Low	High
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Gravelly soil	---	---	---	---	---	---	---	---	---
GsF:									
Galestown	---	---	---	---	---	---	Low	Low	High
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Clayey soil	---	---	---	---	---	---	---	---	---
Gravel soil	---	---	---	---	---	---	---	---	---
Iu:									
Iuka	---	---	---	---	---	---	---	Moderate	High
Alluvial land, wet	---	---	---	---	---	---	---	---	---
Bibb	---	---	---	---	---	---	---	---	---
KeA:									

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
KeA:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Bourne	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
KeB:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
KfB:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
KfB:									
Sassafras	---	---	---	---	---	---	---	---	---
Turbeville	---	---	---	---	---	---	---	---	---
KfC2:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Turbeville	---	---	---	---	---	---	---	---	---
KfD2:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Turbeville	---	---	---	---	---	---	---	---	---
LgA:									

**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
LgA: Lignum	Bedrock (paralithic)	40-60	---	Strongly cemented	---	---	---	High	High
Alluvial land, wet	---	---	---	---	---	---	---	---	---
Elbert variant	---	---	---	---	---	---	---	---	---
Worsham	---	---	---	---	---	---	---	---	---
LgB: Lignum	Bedrock (paralithic)	40-60	---	Strongly cemented	---	---	---	High	High
Colfax	---	---	---	---	---	---	---	---	---
Meadowville	---	---	---	---	---	---	---	---	---
Orange	---	---	---	---	---	---	---	---	---
Worsham	---	---	---	---	---	---	---	---	---
MaD: Manor	---	---	---	---	---	---	Moderate	Low	Moderate

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
MaD:									
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
MaE:									
Manor	---	---	---	---	---	---	Moderate	Low	Moderate
Ashlar	---	---	---	---	---	---	---	---	---
Watt variant	---	---	---	---	---	---	---	---	---
MdB:									
Marr	---	---	---	---	---	---	Moderate	Moderate	High
Caroline	---	---	---	---	---	---	---	---	---
Westphalia	---	---	---	---	---	---	---	---	---
MdC2:									
Marr	---	---	---	---	---	---	Moderate	Moderate	High
Caroline	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
MdC2: Westphalia	---	---	---	---	---	---	---	---	---
MdD2: Marr	---	---	---	---	---	---	Moderate	Moderate	High
Caroline	---	---	---	---	---	---	---	---	---
Westphalia	---	---	---	---	---	---	---	---	---
MdE2: Marr	---	---	---	---	---	---	Moderate	Moderate	High
Galestown	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Westphalia	---	---	---	---	---	---	---	---	---
Me: Meadowville	---	---	---	---	---	---	Moderate	High	High
Mottled soils	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
Me:									
Red soils	---	---	---	---	---	---	---	---	---
MkB2:									
Mecklenburg	---	---	---	---	---	---	---	High	Moderate
Elioak	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
Zion variant	---	---	---	---	---	---	---	---	---
MkC2:									
Mecklenburg	---	---	---	---	---	---	---	High	Moderate
Appling	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
Zion variant	---	---	---	---	---	---	---	---	---
MIC3:									
Mecklenburg	---	---	---	---	---	---	---	High	Moderate



**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
MIC3:									
Appling	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
Zion variant	---	---	---	---	---	---	---	---	---
NaB:									
Nason	Bedrock (paralithic)	40-60	---	Strongly cemented	---	---	---	Moderate	High
Appling	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
NaC2:									
Nason	Bedrock (paralithic)	40-60	---	Strongly cemented	---	---	---	Moderate	High
Appling	---	---	---	---	---	---	---	---	---
Manor	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
NcC3:									

**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
NcC3:									
Nason	Bedrock (paralithic)	40-60	---	Strongly cemented	---	---	---	Moderate	High
Appling	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
OrA:									
Orange	Bedrock (paralithic)	48-72	---	Strongly cemented	---	---	---	High	Moderate
Elbert variant	---	---	---	---	---	---	---	---	---
Worsham	---	---	---	---	---	---	---	---	---
Meadowville	---	---	---	---	---	---	---	---	---
OrB:									
Orange	Bedrock (paralithic)	48-72	---	Strongly cemented	---	---	---	High	Moderate
Cullen	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
OrC2:									

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
OrC2:									
Orange	Bedrock (paralithic)	48-72	---	Strongly cemented	---	---	---	High	Moderate
Mecklenburg	---	---	---	---	---	---	---	---	---
Zion variant	---	---	---	---	---	---	---	---	---
Po:									
Pooler variant	---	---	---	---	---	---	---	High	High
Bladen	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
Ro:									
Roanoke	---	---	---	---	---	---	---	High	High
Wehadkee	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
Wahee	---	---	---	---	---	---	---	---	---
Sa:									

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
Sa: Sand and gravel pits	---	---	---	---	---	---	---	---	---
ScF: Sandy and clayey land	---	---	---	---	---	---	---	---	---
SfA: Sassafras	---	---	---	---	---	---	Moderate	Low	High
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
SfB: Sassafras	---	---	---	---	---	---	Moderate	Low	High
Aura	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---

SfC2:

**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
SfC2:									
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Galestown	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
SfD2:									
Sassafras	---	---	---	---	---	---	Moderate	Low	High
Aura	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
SfE2:									
Sassafras	---	---	---	---	---	---	Moderate	Low	High

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
SfE2:									
Aura	---	---	---	---	---	---	---	---	---
Galestown	---	---	---	---	---	---	---	---	---
Sn:									
State	---	---	---	---	---	---	---	Moderate	High
Alluvial land, wet	---	---	---	---	---	---	---	---	---
StD:									
Stony rolling land	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
StE:									
Stony steep land	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---

SuC:

**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
SuC:									
Susquehanna	---	---	---	---	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
TeA:									
Tetotum	---	---	---	---	---	---	---	High	High
Bladen	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---
Pooler variant	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---
TeB:									
Tetotum	---	---	---	---	---	---	---	High	High
Bertie	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
TeB:									
Caroline	---	---	---	---	---	---	---	---	---
TeC2:									
Tetotum	---	---	---	---	---	---	---	High	High
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Tm:									
Tidal marsh	---	---	---	---	---	---	---	---	---
TuA:									
Turbeville	---	---	---	---	---	---	---	High	High
Altavista	---	---	---	---	---	---	---	---	---
Bourne	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---

TuB:



## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
TuB:									
Turbeville	---	---	---	---	---	---	---	High	High
Bourne	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
TuC2:									
Turbeville	---	---	---	---	---	---	---	High	High
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
W:									
Water	---	---	---	---	---	---	---	---	---
Wa:									
Wahee	---	---	---	---	---	---	---	High	High

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
Wa:									
Roanoke	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
WgD:									
Watt variant	Bedrock (paralithic)	20-40	---	Strongly cemented	---	---	---	High	High
Aura	---	---	---	---	---	---	---	---	---
Manor	---	---	---	---	---	---	---	---	---
Nason	---	---	---	---	---	---	---	---	---
WgE:									
Watt variant	Bedrock (paralithic)	20-40	---	Strongly cemented	---	---	---	High	High
Manor	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
WgE: Rock Outcrop	---	---	---	---	---	---	---	---	---
Wh: Wehadkee	---	---	---	---	---	---	---	High	Moderate
Alluvial land, wet	---	---	---	---	---	---	---	---	---
Cartecay	---	---	---	---	---	---	---	---	---
WIB: Westphalia	---	---	---	---	---	---	Moderate	Low	High
Caroline	---	---	---	---	---	---	---	---	---
Marr	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
WID2: Westphalia	---	---	---	---	---	---	Moderate	Low	High
Caroline	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
WID2:									
Marr	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
WIE2:									
Westphalia	---	---	---	---	---	---	Moderate	Low	High
Galestown	---	---	---	---	---	---	---	---	---
Marr	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
WmA:									
Wickham	---	---	---	---	---	---	---	Moderate	High
Altavista	---	---	---	---	---	---	---	---	---
WmB:									
Wickham	---	---	---	---	---	---	---	Moderate	High
Altavista	---	---	---	---	---	---	---	---	---

WmC2:

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
WmC2:									
Wickham	---	---	---	---	---	---	---	Moderate	High
Gravel soil	---	---	---	---	---	---	---	---	---
WnA:									
Wickham variant	---	---	---	---	---	---	---	Moderate	High
Gravelly soil	---	---	---	---	---	---	---	---	---
Loamy sand soil	---	---	---	---	---	---	---	---	---
WnB:									
Wickham variant	---	---	---	---	---	---	---	Moderate	High
Gravelly soil	---	---	---	---	---	---	---	---	---
Sandy loam soil	---	---	---	---	---	---	---	---	---
WnC:									
Wickham variant	---	---	---	---	---	---	---	Moderate	High
Gravelly soil	---	---	---	---	---	---	---	---	---

## Table K2. - Soil Features - Continued

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
WnC: Loamy sand soil	---	---	---	---	---	---	---	---	---
WoA: Woodstown	---	---	---	---	---	---	Moderate	Moderate	High
Bertie	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
WoB: Woodstown	---	---	---	---	---	---	Moderate	Moderate	High
Bertie	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Sassafras	---	---	---	---	---	---	---	---	---
Wr: Worsham	---	---	---	---	---	---	---	High	Moderate
Alluvial land, wet	---	---	---	---	---	---	---	---	---

**Table K2. - Soil Features - Continued**

Stafford and King George Counties, Virginia

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
Wr:									
Elbert variant	---	---	---	---	---	---	---	---	---
Colfax	---	---	---	---	---	---	---	---	---
ZIB:									
Zion variant	Bedrock (lithic)	48-72	---	Indurated	---	---	---	High	Moderate
Cullen	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---
Orange	---	---	---	---	---	---	---	---	---
ZIC2:									
Zion variant	Bedrock (lithic)	48-72	---	Indurated	---	---	---	High	Moderate
Bremo	---	---	---	---	---	---	---	---	---
Cullen	---	---	---	---	---	---	---	---	---
Mecklenburg	---	---	---	---	---	---	---	---	---